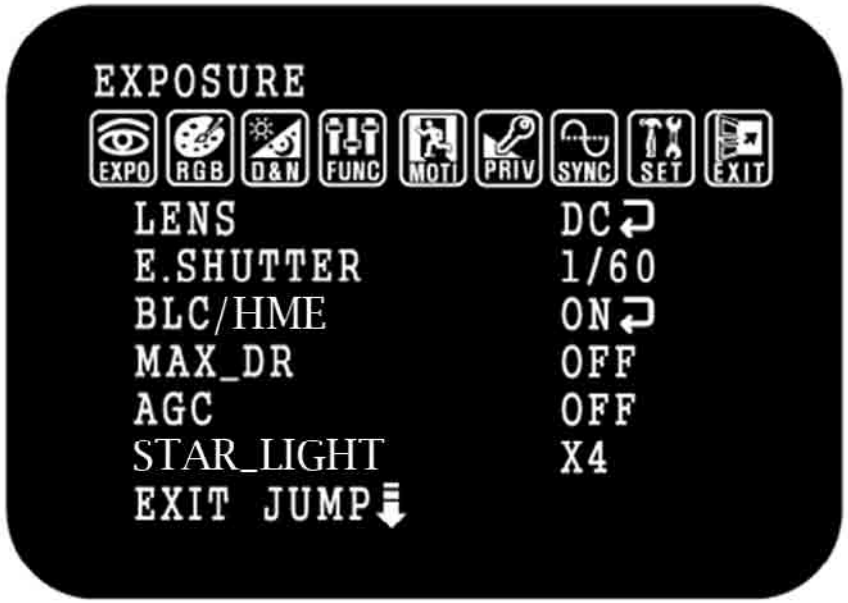
Infinity OMNI-Plus D2382TIR

User Manual Version #2: Camera with ICON Menu



PRECAUTIONS

- Do not open or modify.
- Do not open the case except during maintenance and installation, for it may be dangerous and can cause damages.
- Do not put objects into the unit.
- Keep metal objects and flammable substances from entering the camera. It can cause fire, short-circuits, or other damages.
- Be careful when handling the unit.
- To prevent damages, do not drop the camera or subject it to shock or vibration.
- Do not install near electric or magnetic fields.
- Protect from humidity and dust.
- Protect from high temperature.
- Be careful when installing near the ceiling of a kitchen or a boiler room, as the temperature may rise to high levels.
- Cleaning
- To remove dirt from the case, moisten a soft cloth with a soft detergent solution and wipe.
- Mounting Surface
- The material of the mounting surface must be strong enough to support the camera.

FCC COMPLIANCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the **FCC** rules. These limits are designed to Provide reasonable protection against harmful interference .when the equipment is operated in a residential environment. This equipment generates, uses, and radiates radio frequency energy; and if it is not installed and used in accordance
with the instruction manual, it may cause harmful interference to radio communications.

WARNING: Changes or modifications are not expressly approved by the manufacture.

TROUBSHOOTING

Before sending your camera for repair, check the following or contact our technical specialist.

No VIDEO
Check the coaxial cable and make sure it is connected securely.
Check the lens' iris adjustment at the menu setup of the camera.
Check the power supply and make sure the camera has the proper voltage and current.

Out-of-Focus VIDEO
Check the clear dome cover and the lens for dirt or fingerprints. Use a soft cloth and gently clean.
Check the lens manual focal and zoom adjustment. Field test monitor is recommended.

FEATURES

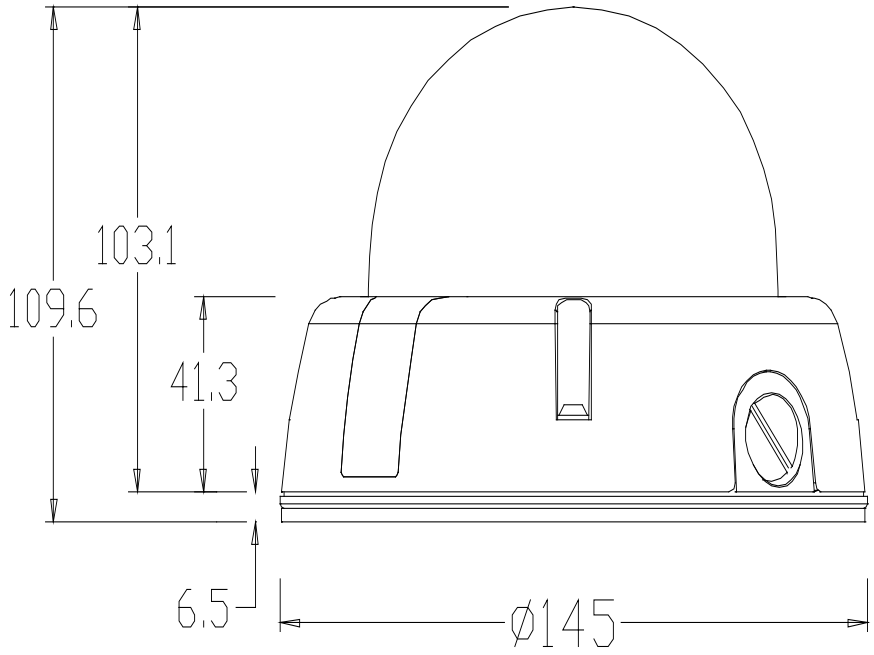
- 1/3" Sony Super HAD II CCD
- High Resolution 560TV Lines
- OMNI-Focus 2.9~8.5mm 3X Motorized Zoom, Auto Iris
- 70ft Range IR with Intelligent Camera Sync
- True Day & Night / TDN5 (Electro Magnetic Mechanism)
- Max-DR (Electronic Wide Dynamic Range)

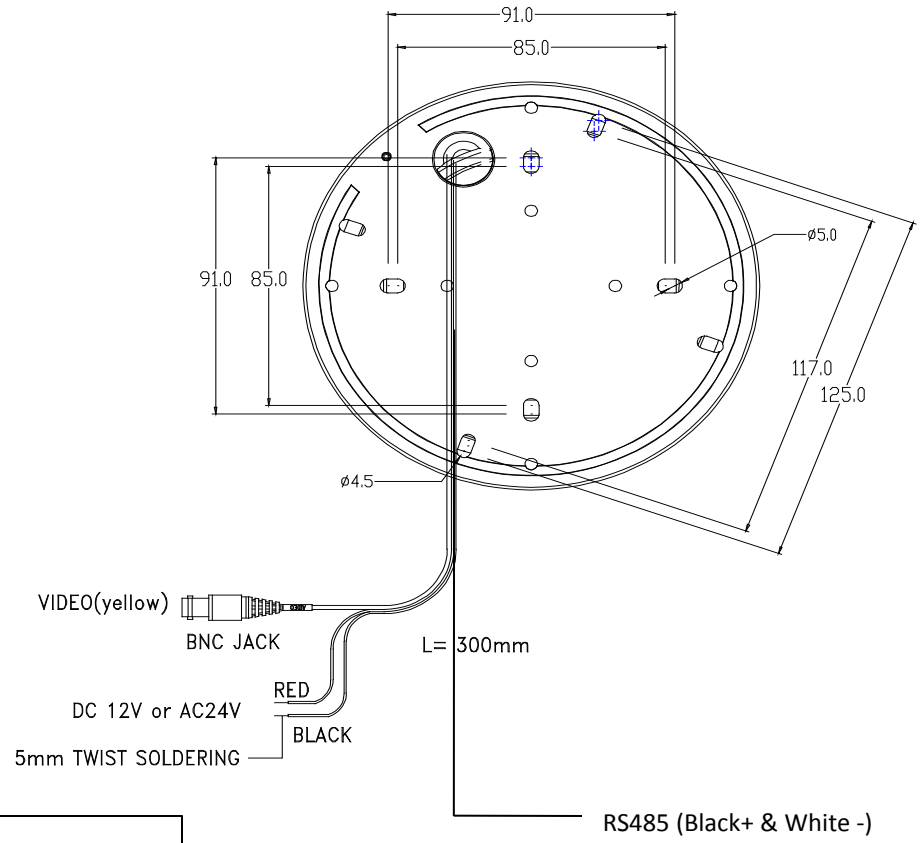
  Enables the camera to capture perfect images in both bright and dark environments simultaneously.
- 3D-DNR (3D Digital Noise Reduction)

  Produces less noise and more color during low-light application.
- HME (Highlight Mask Exposure)

  Masks overly exposed light to produce a true video image of any environment.
- SLC (Side Light Compensation)
- DIS (Digital Image Stabilizer)
- Programmable Privacy Zone (6) & Motion Detection
- Easy Icon Driven OSD Menu with Built-In Joystick
- Auto Sensing 12VDC or 24VAC with Line Lock
- No Fog or Condensation under Any Weather Condition

DIMENSION (mm) & POWER REQUIREMENT





POWER REQUIREMENT:

12VDC @1A

24VAC @ .500mA

Power Wire Maximum Distance

Wire Gauge	12VDC	24VAC
24 AWG	80ft	323ft
22 AWG	128ft	513ft
20 AWG	203ft	815ft
18 AWG	323ft	1295ft
16 AWG	514ft	2056ft
14 AWG	816ft	3264ft
12 AWG	1295ft	5183ft
10 AWG	2057ft	8228ft

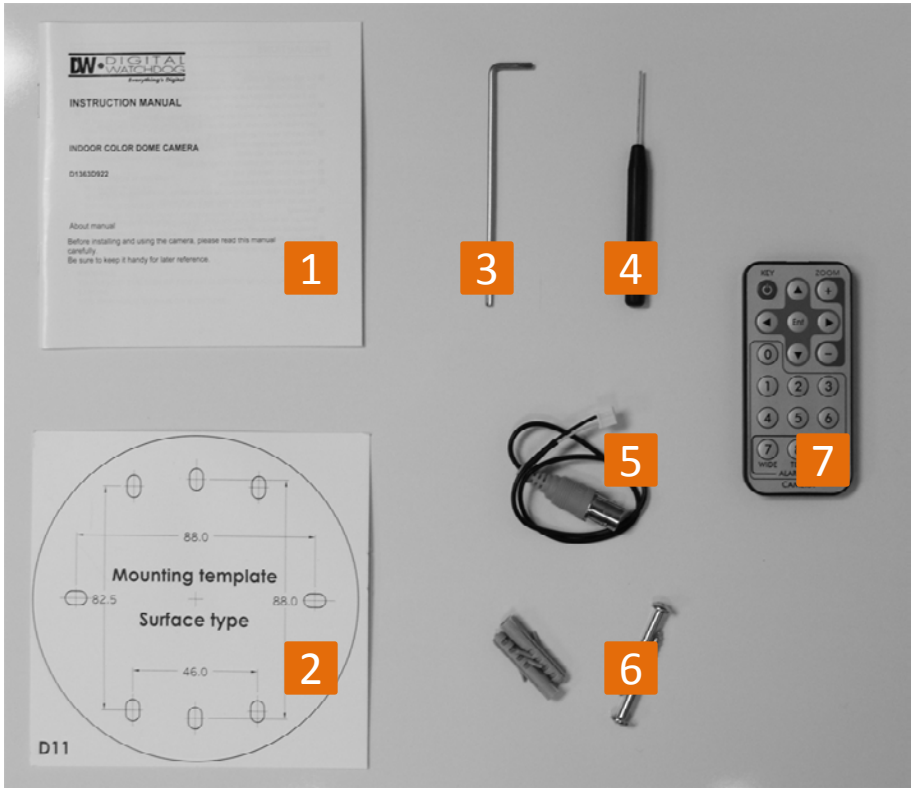
COAXIAL CABLE TYPE MAXIMUM DISTANCE

RG59/ U	750feet
RG6/U	1,000feet
RG11/U	1,500feet

INSTALLATION AND ADJUSTMENT

Included with DW Indoor Dome Camera:

1. User Manual
2. Mounting Template
3. One Security L-Key
4. One Single Sided Hex Key
5. Secondary BNC Cable for a Field Monitor
6. Two (2) Screws and Two (2) Dry Wall Anchors
7. IR Remote Controller



Camera Installation

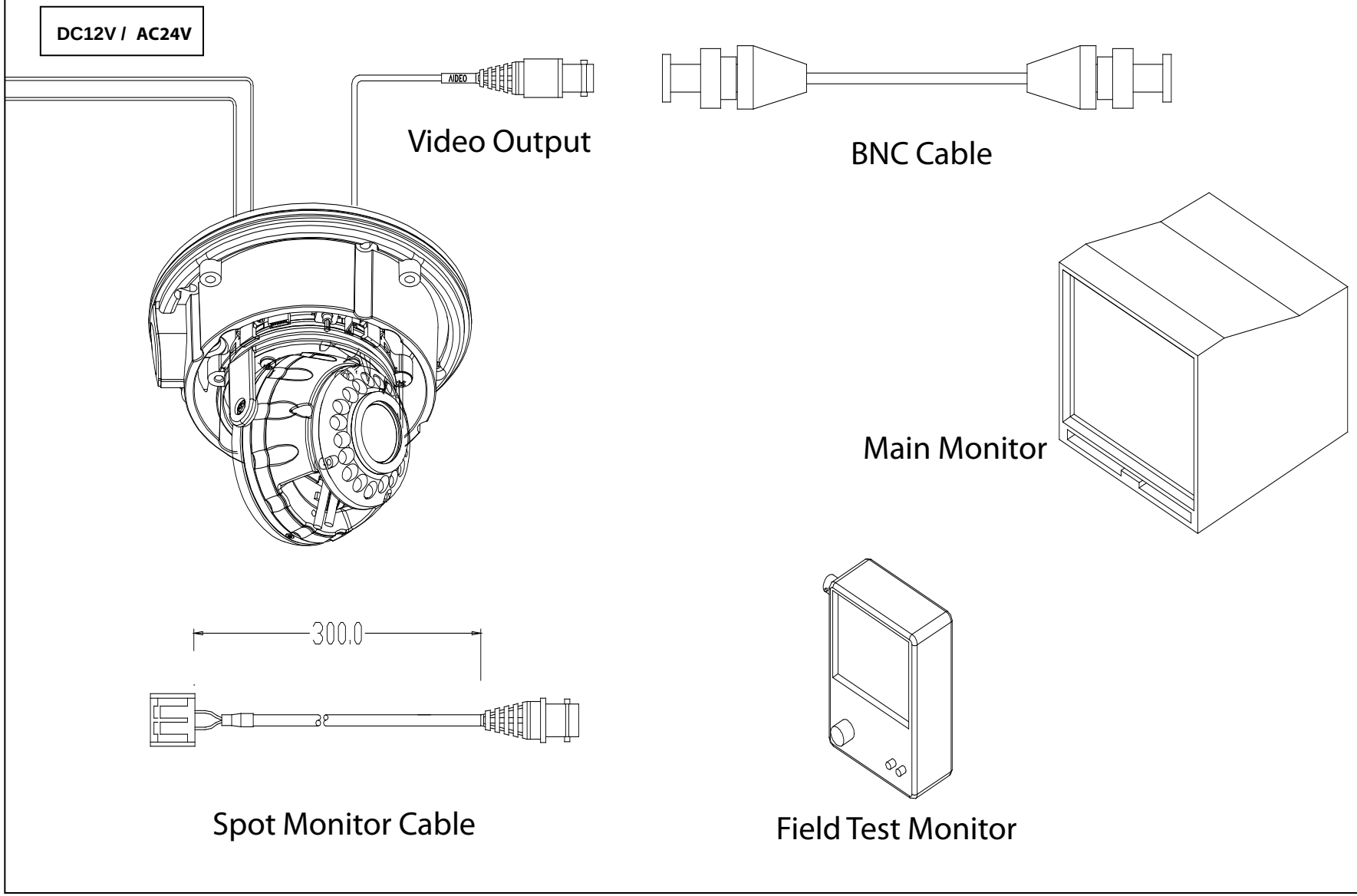
Use the mounting template to mount the camera.

Using the security L-key to loosen the four screws that secure the vandal proof dome cover, Remove the vandal proof dome cover to access the screw holes to mount the camera.

NOTE: Keep the lens and the vandal proof cover free from dust or fingerprint.

3-Axis Gimbal Adjustment

CONNECTION


DC12V / AC24V
VIDEO
Video Output
BNC Cable
Main Monitor
300.0
Spot Monitor Cable
Field Test Monitor

CAMERA OSD & IR REMOTE CONTROLLER

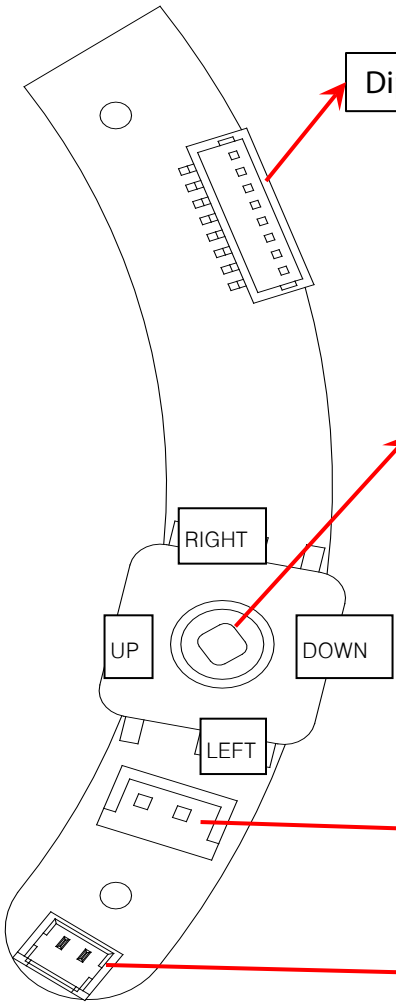
Key Button

Menu Access and Control

Zoom Function Control

ID Buttons

Motion Alarm On &OFF



Dip Switch for the IR Remote Controller

Mini Joystick for the Menu Setup

Field Test Monitor Video Output

RS485 Connector

NOTE:

Press [KEY] + [ID] (Default is “001” for ID=1)

Press [ENT] to access the Menu

Note: The camera ID is a 3-digit number.

EXPOSURE

LENS	DC (0~100) / MANUAL / VIDEO. (DC Lens is recommended.)
SHUTTER	1/160 /1/100 / FLC / 1/250 ~ 10000 / SENS-UP x2 ~ x250
BLC	OFF / ON BLC (Back Light Compensation)
AGC	HIGH / MIDDLE / LOW / OFF AGC (Auto Gain Control)
MAX-DR	OFF / ON (0 ~ 20) (Electronic Wide Dynamic Range)
STAR-LIGHT	AUTO (x2 ~ x250) / OFF (x32 is recommended.)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY RESET

COLOR

WB MODE	AWC / ATW / MANUAL / PUSH LOCK
R-Y GAIN	0 ~ 100
B-Y GAIN	0 ~ 100

DAY & NIGHT

Day & Night Mode	**AUTO** / **COLOR** / **BW** / **EX-CONT** **COLOR ----→ BW** : Switching from color to BW; if the number is higher, the camera will only switch during a super low light condition. **BW -----→ COLOR** : Switching from BW to color; this number should always be lower than COLOR to BW **Read Time**: Time interval to switch from Color to Black-and-White
	COLOR
	B&W: (BURST:OFF/ON) When the burst is OFF will make less noise
C-SUP	**Color Suppression** :Color will be reduced at low illumination, if the C-SUP Level is higher. 0 ~ 100 (Not Available when DNR is On.)
A-SUP	**Aperture Suppression**: The sharpness of the edges will be reduced at low illumination, if A-SUP Level is higher. 0 ~ 100 (Not Available when DNR is On.)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

FUNCTION

MIRROR	OFF / MIRROR / V-FLIP / ROTATE
SHARPNESS	0 ~ 31
GAMMA	0.05 ~ 1.00 / USER
FREEZE	OFF / ON
NEGATIVE	OFF/ ON
3D-DNR	OFF / LOW / MIDDLE / HIGH 3D-DNR (3D Digital Noise Reduction)
D-ZOOM	OFF / ON (x1.0 ~ x32 PTZ)
SLC	OFF / ON SLC (Side Light Compensation)
HME	OFF / ON HME (Highlight Masking Exposure)
DIS	OFF / ON DIS (Digital Image Stabilizer)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

MOTION

MOTION	OFF / ON
	SET WINDOW
	ALL SET (Set the Entire Screen)
	ALL CLEAR (Clear the Entire Screen)
	SENSITIVITY (1 ~ 120)
	SHOW INDICATOR (OFF / ICON / TRACE)
	DELAY OUT (1 ~ 15) Motion Alarm Zoom-In Delay
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

Motion Alarm Setup

1. Go to Motion Menu
2. Set Motion to "ON"
3. Click [Set Windows] and set your area of the motion detection
4. Press the Left Arrow button, until you exit back to the Motion Menu
5. Zoom out to the farthest you want the camera to zoom out and press [7](Wide)
6. Zoom in to the farthest you want the camera to zoom in and press [8](Tele)
7. Click [Exit Jump] then click [Save & Exit]
8. Once you are out of the menu press [9](ON/OFF) to activate motion alarm

PRIVACY	
	MASK 1 OFF / ON ↵
	MASK 2 OFF / ON ↵
	MASK 3 OFF / ON ↵
	MASK 4 OFF / ON ↵
	MASK 5 OFF / ON ↵
	MASK 6 OFF / ON ↵
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

SETUP	
CAMERA ID	0 ~ 255
TITLE	OFF / ON
DPC	OFF / AUTO DPC (Dead Pixels Cancellation)
MONITOR	CRT / LCD
LANGUAGE	English, Japanese, Chinese
BAUDRATE	2400 / 4800 / 9600 / 14400 / 19200 / 38400. **Protocol is Pelco-D** (fixed cannot be changed; hardcoded into the DSP)
OMNI LENS	OFF / 1 ~ 10 (for OMNI-PLUS CAMERA only)
EXIT JUMP	EXIT / SAVE&EXIT / FACTORY SET

SYNC	
SYNC	INTERNAL / AUTO
V-PHASE	0 ~ 199
EXIT JUMP	EXIT / SAVE & EXIT / FACTORY SET
EXIT	
EXIT	Exit the menu
SAVE&EXIT	Exit the menu and save the setting
FACTORY SET	Reset the menu setting to factory default

SPECIFICATIONS:

5436 W Crenshaw St. Tampa, FL 33634
Tel: 866-446-3595 / 813-888-9555
Fax: 813-888-9262
www.Digital-Watchdog.com
technicalsupport@dwcc.tv
Technical Support Hours: Monday-Friday
8:30am to 8:00pm Eastern Time

DW DIGITAL WATCHDOG
Everything's Digital

Camera TYPE	Color / BW	D2382TIR
	Mount	Surface
Image	Device	Super HAD II CCD
	Size	1/3"
	Pixels-Total	811(H) x 508 (V)
	Pixels-Effective	768(H) x 494 (V)
Scanning	System	525 line, 2:1Interlace
	Horizontal Frequency Internal Mode	15,734Hz
	Vertical Frequency Internal Mode	59.94Hz
Min. Scene Illumination	IR-LED on	0.0 Lux
Functions	BLC	ON / OFF
	AGC	HIGH / MIDDLE / LOW /OFF
	MAX-DR	OFF / ON
	Mirror	OFF / MIRROR / V-FLIP / ROTATE
	STAR-LIGHT	AUTO (x2 ~ x250) / OFF
	3D-DNR	OFF / ON
	SLC	OFF / ON
	HME	OFF / ON
	Motion Detection	OFF / ON (Area / Sensitivity)
	Privacy Zone	6 Programmable Zone / Size
Lens	Focal Length	OMNI-Focus 2.9~8.5mm 3x Motorized Zoom, Auto Iris
Resolution	Horizontal	560 TV Lines [Color]; 580 TV Lines [BW]
Video Output	VBS 1.0Vp-p	VBS 1.0Vp-p (75 Load)
S/N Ratio	S/N Ratio	50dB
OSD	OSD	YES
Environmental Conditions	Operating Temperature	-10℃ ~ +55℃(14℉ ~ 131℉)
	Humidity	Less than 90%
Power	Power Requirement	12VDC / 24VAC
	Power Consumption	1.8 [W] / 2.4 [W] LED Off; 4.6 [W] / 4.9 [W] LED On